# NetDisk ™

# User Manual

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# Chapter 1

# Preface

## Introduction

**Congratulations on your purchase of the NetDisk Network Direct Attached Storage Solution.**

This NetDisk User Manual is intended to help you install the product quickly and easily.

The NetDisk Installation Guide is intended for individual users who need to install and support one or more NetDisk on their PC's or Ethernet network. The NetDisk user manual assumes a user has the basic understanding of PC's and networks.

**NetDisk Installation User Manual**

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## Main Features of NetDisk

- Advanced Network Storage, NDAS (Network Directly Attached Storage)
- External and Portable Storage Device
- Multi-interface (Ethernet, USB2.0)
- Aggregation function
- Backup and Mirroring function

## Different NetDisk Mode Application

### 1. NDAS Mode

With NDAS mode, NetDisk is directly attached to 100BaseT full duplex switching hub, and each user in the network can use NetDisk as a local disk drive. In addition, each and every user can easily enjoy all of the advanced NDAS features such as mirroring, aggregation, and flexible expansion.

### 2. Ethernet Mode

With Ethernet mode, NetDisk can be directly attached to PC's Ethernet port by using cross-over cables without using switching Hub. Without networking, individual users can use high performance external storage via Ethernet.

### 3. USB2.0 Portable Mode

With USB2.0 mode, NetDisk can be used as a simple and easy high speed external storage. USB 2.0 mode is the most convenient way for data carrying and external storage.

## NetDisk Models Covered By This Guide

This NetDisk Installation Guide includes information on the following models:

- NDU10-80
- NDU10-120
- NDU10-160

## Package Contents

The following items are included in the NetDisk package:

NetDisk

Quick Install Guide

Software Installation CD-ROM

Ethernet Cable

USB Cable

Power Adapter and Power Cord

# Chapter 2

# Requirements

## Hardware Requirement

**NDAS Mode Usage**

- Fast Ethernet Hub (100BASE-T / 802.3u) or
  Wi-Fi WLAN (802.11a or 802.11g) for wireless configuration.

**Ethernet Mode Usage**

- PC with Ethernet port
- Cross-over LAN cable (not included)

**USB2.0 Mode Usage**

- PC with USB port

## Software Requirement

- The NetDisk Administration software V.1x only supports Windows 2000 and Windows XP.
- Windows 2000 or XP users may need to install USB2.0 driver which is included in the installation CD.

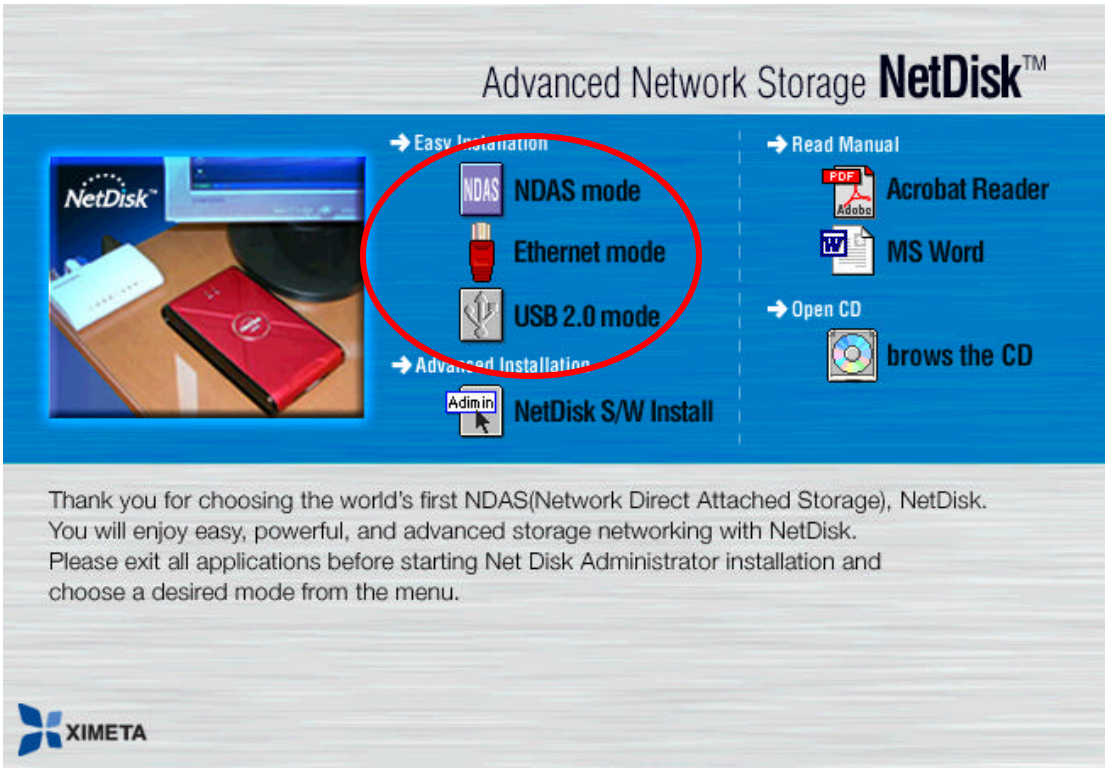
# Chapter 3

## Installation

Installation of NetDisk hardware and software are simple and easy. Insert included "NetDisk installation CD" to your CD-Rom driver, and select the NetDisk mode you want to use. The intelligent installation guide will lead you to complete the installation for both hardware and software. Simply follow step by step instructions and complete the installation.

### For The First Time Users

The NetDisk is unique and it is the world's first NDAS system. NetDisk is the world's first Ethernet and USB combination external HDD. It is strongly recommended for the first time NetDisk users to select easy installation from the main menu.




**NDAS Mode Easy Installation**

- This installation guides users to complete installation of both hardware and software as a NDAS mode. It takes users through step by step easy to understand explanations.
- The first time NetDisk users who want to use NetDisk in NDAS mode, are strongly recommended to choose this menu.

- Select “NDAS mode easy installation” and click “next” button. The installation guide will lead you through the installation.

**Ethernet Mode Easy Installation**

- This installation guides users to complete installation of both hardware and software of NetDisk as a Ethernet mode. It takes users through step by step easy to understand explanations.
- First time NetDisk users who want to use NetDisk in Ethernet mode, are strongly recommended to choose this menu.
- Select “Ethernet mode easy installation” and click “next” button. The installation guide will lead you through the installation.

**USB2.0 Mode Easy Installation**

- This installation guides users to complete installation of NetDisk as a USB mode. It takes users through step by step easy to understand explanations.
- First time NetDisk users who want to use NetDisk in USB mode, are strongly recommended to choose this menu.
- Select “USB mode easy installation” and click “next” button, the installation guide will lead you through the installation.

## For Advanced Users

Once you get comfortable installing or using NetDisk, you do not need to follow the User Guide. Simply click “Advanced user installation” to skip step by step installation instructions.

# Chapter 4

# NetDisk™ Administrator

Once you complete your software installation, you will find a NetDisk launcher icon on your desktop screen and a NetDisk Administrator Tool icon on the bottom right corner of the system tray. Using the NetDisk Administrator Tool, each NetDisk needs to be registered before it can be used. Instructions on how to register NetDisk can be found below.

- **NetDisk launcher** will activate and upload the NetDisk Administrator on the system tray.
- **NetDisk Administrator Tool** adds, deletes, activates, de-activates and refreshes the status of the NetDisk along with serving other administrative functions of the NetDisk.

## Add (Register) A New NetDisk

1. Click **NetDisk™ Administrator Tool** Icon located on the bottom right corner of the system tray. A menu box, just like the one below, will appear:

2. Click **New NetDisk.**

3. **Register a NetDisk**

   - **NetDisk Name** is optional.
   - **NetDisk ID** must be correctly entered or else **Add** button will not be enabled.
     - NetDisk does not contain letter O. Please use 0 (number zero) for all 0s.
   - **Write Key** is needed to gain write access of NetDisk.

   Click **Add** if you want to add the new NetDisk. Otherwise, click **Cancel**.

**NOTE: NetDisk ID** and **Write Key** can be found underneath each NetDisk.

4. **NetDisk Administrator**

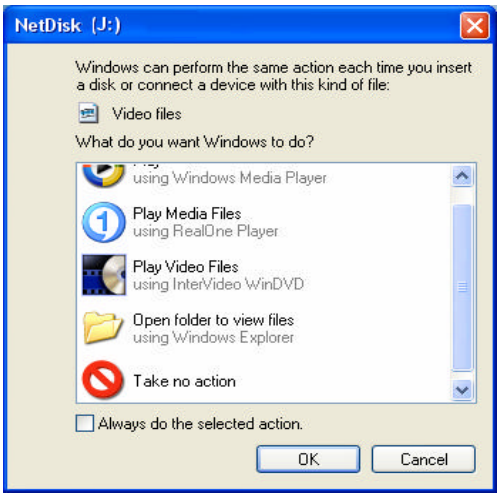
   - Confirms the NetDisk you just registered.

   **NOTE:** If another user is in **Read/Write Mode** for the NetDisk you just registered, you will be registered in as **Read Only Mode** even if you entered the **Write Key**. You can later switch to **Read/Write Mode** by following the **Change from Read Only Mode to Read/Write Mode** on page 19.

   i. If the **Write Key** was entered in the previous step, the NetDisk is registered as **Read/Write Mode**.

   ii. If the **Write Key** was not entered in the previous step, the NetDisk is registered as **Read Only Mode**.

5. Action window.

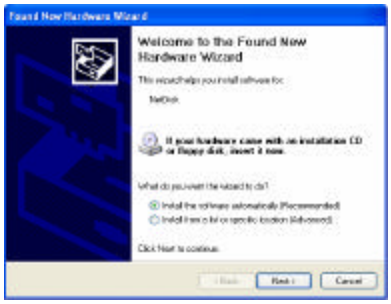

NetDisk (J:)
Windows can perform the same action each time you insert a disk or connect a device with this kind of file:
Video files
What do you want Windows to do?
using Windows Media Player
Play Media Files using RealOne Player
Play Video Files using InterVideo WinDVD
Open folder to view files using Windows Explorer
Take no action
Always do the selected action.
OK
Cancel

- This window appears every time a NetDisk is registered/added/enabled. If it does not appear, do not be alarmed. Please select one of the choices from the below.

  - o If you do not want the window to appear every time a NetDisk is registered/added/enabled, select **Take no action** and the box **Always do the same action**. Then click **OK**.
  - o If you want to simply close the window click **Cancel**.
  - o If you want Windows to perform an action, select an action from the list and click **OK**.

6. **Found New Hardware Wizard**

- This window may take couple of minutes to appear.




- If you are registering a new NetDisk, **Found New Hardware Wizard** will appear. See **Installation of New NetDisk** on page 12 and follow the instructions.

- If you are re-registering a NetDisk that has been removed before, **Found Hardware Wizard** may not appear. Just continue to the next step.

7. Registration is completed.

- Click **NetDisk™ Administrator Tool** to see the registered NetDisk.

i. NetDisk in **Read/Write Mode,** indicated by **Blue** circle.

ii. NetDisk in **Read Only Mode**, indicated by **Green** circle.

## Installation of New NetDisk

Every time a new NetDisk is added, it must be registered into your computer. **Found New Hardware Wizard** will automatically register the new NetDisk with a click of a button. Please refer to instructions below.

1. **Found New Hardware Wizard**

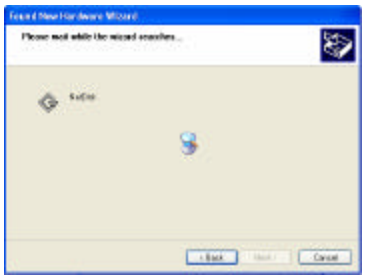
- Select **Install the software automatically** and click **next**.

- If you click **Cancel**, NetDisk's Device Drivers will not get installed and one cannot use the NetDisk.
- To re-install the NetDisk, please follow the steps below.

**Re-Install NetDisk**

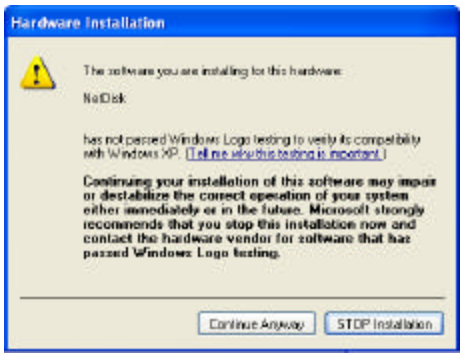
1. Right click **My Computer**
2. Select **Manage**
3. Double click **Device Manager** under System Tools
4. Double click **SCSI and RAID controllers**
5. Right click **XiMeta_LanscsiBus_XX** (XX can be any two numbers)
6. Select **Update Driver**
7. **Welcome to the Hardware Update Wizard** will appear.
8. Click **Next** and follow the rest of the steps to install the NetDisk.

2. Searching for the new NetDisk.



3. **Hardware Installation**:

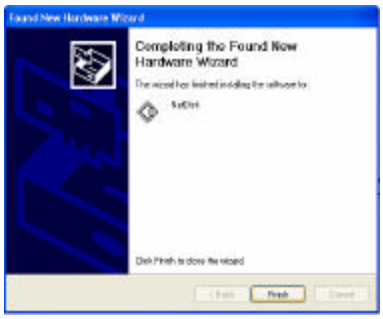
- This is just a warning window advising NetDisk to perform Windows Logo Testing.
- Click **Continue Anyway**.


Hardware Installation
NetDisk
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

- If you click **STOP Installation**, NetDisk's Device Drivers will not get installed and one cannot use the NetDisk.
- If you want to re-install the NetDisk, please follow the **Re-Install NetDisk** in step one of this section.

4. Installation is completed.

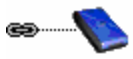
   - Click **Finish**.

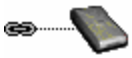
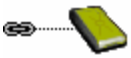



5. New NetDisk has been registered to your computer.

## NDAS Status and Mode Indicator

- NetDisk provides users with seven basic Modes.
- When a user first registers his/her NetDisk, it is either registered in as a Read Only Mode or Read/Write Mode. Once the NetDisk is successfully registered with either of the two Modes, user can change the Mode of the NetDisk or perform advanced functions, such as aggregation or mirroring. Fore more information on Aggregation and Mirroring, please refer to sections on Aggregation or Mirroring on pages 24 and 36.
- Read Only Mode and Read/Write Mode will be the two most commonly used Modes. Instructions on how to change back and forth from these two Modes can be found on 19 (Change from Read Only Mode to Read/Write Mode) and 23 (Change from Read/Write Mode to Read Only Mode).
- Below is a chart describing each of the NetDisk's Mode and the icons that correspond with each Mode.

| NetDisk Color | Icon | NetDisk Icon | Mode/Meaning |
|---|---|---|---|
| Blue | |  | **Read/Write Mode**<br>• Users can read and write to and from NetDisk.<br>• Only one user can write to a specific NetDisk at a time (one writer per NetDisk).<br>• No users can write to NetDisk until the current writer of the NetDisk passes on the writing access to another user. |
| Green | | | **Read Only Mode**<br>• Users can only read from NetDisk.<br>• Any number of users can read from a NetDisk or from a same file |

| | | | |
|---|---|---|---|
| | | | in a specific NetDisk. |
| Red | | | **NetDisk is not recognized**<br>• You can only remove this NetDisk from your computer or view its property. |
| Gray | |  | **Disabled Mode**<br>• Disabled from your computer (but still connected to the network)<br>• From this mode NetDisk can either enabled back to Read Only Mode, Read/Write Mode, or be removed from your computer. |
| White | | | **Busy Mode**<br>• Someone else is using the NetDisk so no other user can access (write or enable) the NetDisk.<br>• Until the current user releases the NetDisk, you cannot use the NetDisk. |
| Black | | | **Disconnected Mode**<br>• Not connected to the network.<br>• It usually means either the power cord or the Ethernet (USB) cord is unplugged. Once the cords are connected again, you can resume whatever you were doing.<br>• It can also mean a NetDisk is no longer connected to the LAN.<br>• Too many disconnected NetDisk on your computer can cause your computer to slow down. In such case, remove disconnected NetDisk and re-register them again. |
| Yellow | |  | **Slave Mode**<br>• Slave disk (used for aggregation and mirroring)<br>• You can only remove it from your computer or view its property. |

## NetDisk Administrator Tool Menu

Click **NetDisk™ Administrator Tool** . All the registered NetDisk will be displayed on the NetDisk Administrator Tool Menu.

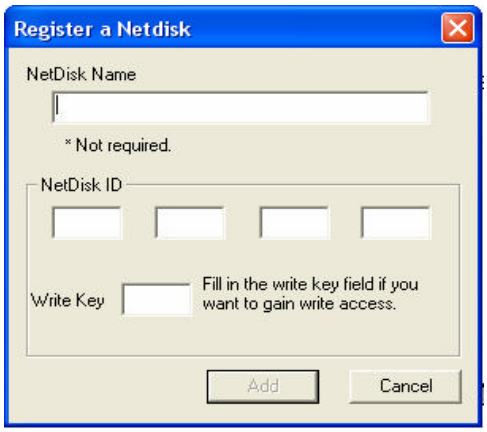
A. **NetDisk** - Displays all the functionality of a specific NetDisk.

- If you named your NetDisk druing the registration step, the new name will be displayed in place of NetDisk #.
- Please refer to **NetDisk functionality** on page 17 for more detailed information on NetDisk functionality**.**

B. **Refresh Status** - Updates the status of NetDisk that are connected to the network.

**NOTE:** If a NetDisk is displayed by a **Black** colored circle, it means network cable or power cable of the NetDisk is disconnected. This will cause operations of other NetDisk to slow down. We recommend you remove the **Black** NetDisk and re-register. You can remove the NetDisk by selecting the **Block** colored NetDisk and choosing **Remove**.

C. **New NetDisk** - Registers a new NetDisk to your computer.

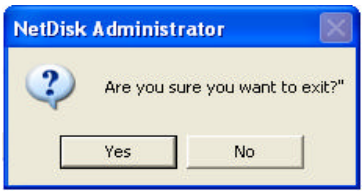



- NetDisk Name is optional
- Enter the correct NetDisk ID.
- Write Key is needed to write to the NetDisk.

D. **About** - Displays NetDisk Administrator version.

E. **Exit** - Exits NetDisk Administrator.

- Click **Yes** if you want to exit. Otherwise, click **No**,




- **NetDisk Administrator Tool** can be restored by double clicking

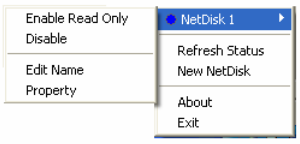
icon on the screen.

## NetDisk Functionality

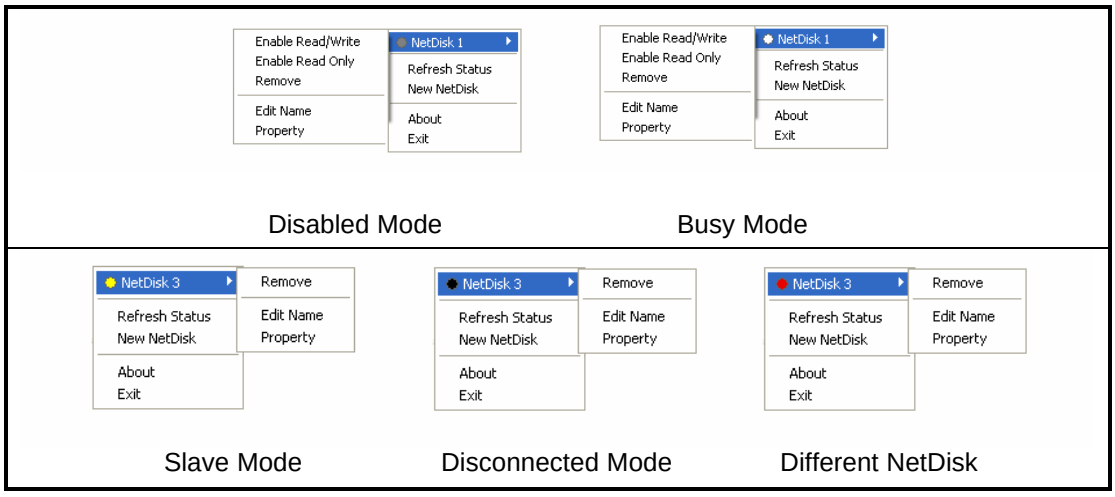
Click **NetDisk Administrator Tool** and place the cursor on one of the NetDisk to view its functions. Each of the NetDisk Modes has its own distinguished functions. Please refer to the diagram on the next page.

**Displays functionality of each NetDisk Mode**

Read Only Mode




Read/Write Mode

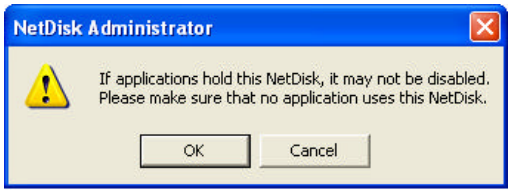



There are seven functionalities NetDisk can perform in all; **Disable**, **Edit Name**, **Enable Read Only**, **Enable Read/Write**, **Property**, **Refresh** and, **Remove**. All of the functionalities are listed below with detailed descriptions.

To access the function, just simply go to **NetDisk Administrator Tool**, select a NetDisk and, click on the function you want the NetDisk to perform.

A **Disable** - Disables you from writing and reading to and from the NetDisk.

- When you select Disable, a warning window will appear. If want to disable the NetDisk click **OK**. Otherwise click **Cancel**.


NetDisk Administrator
If applications hold this NetDisk, it may not be disabled.
Please make sure that no application uses this NetDisk.
OK
Cancel

- If the NetDisk is being used by any applications, NetDisk will not be disabled. In such case, wait until all the applications are finished using NetDisk. Then try disabling it again.

- If you still cannot disable after several attempts, reboot your computer. This may occur when unknown programs are using NetDisk.

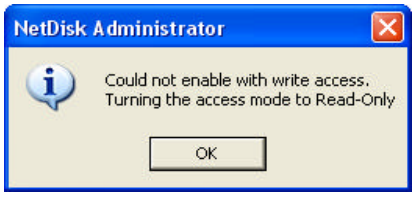
B. **Edit Name** - Changes the name of the NetDisk.

- Type in the new name for the NetDisk on **Edit a NetDisk** window then click **OK**. If you do not want to change the name of the NetDisk, simply click **Cancel**.

C. **Enable Read Only** - Enables you back into **Read Only Mode.**

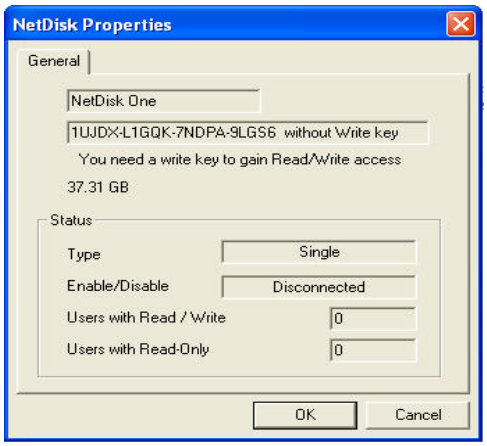
D. **Enable Read/Write** - Enables you back into **Read/Write Mode.**

- Sometimes a NetDisk cannot enable the write access because the NetDisk is busy with other applications or another user. In such a case, NetDisk Administrator window will appear.




- Click **OK** then try enabling it again later.

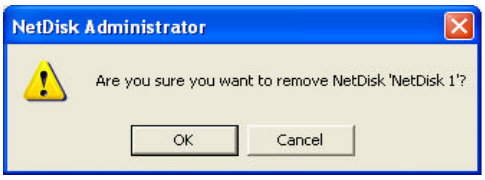
E. **Properties** – Display's properties of the NetDisk.




F. **Refresh** - Updates the NetDisk's data from which you are reading.

G. **Remove** - Removes the NetDisk from your computer.

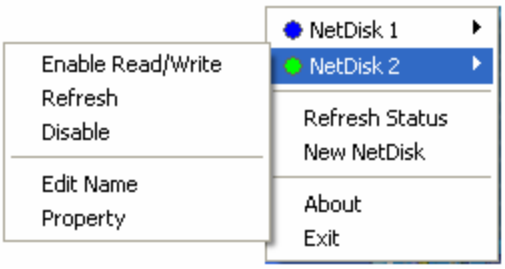
- NetDisk Administrator appears when you select remove. Click **OK** if you want to remove the NetDisk. Otherwise, click **Cancel**.




## Change from Read Only Mode to Read/Write Mode

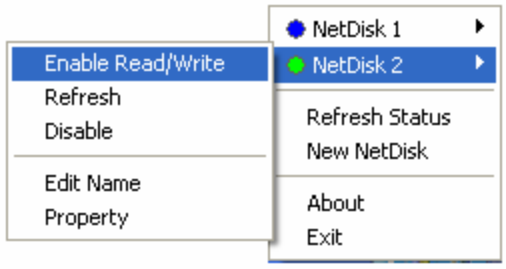
The following instructions guide a user in changing NetDisk's Mode (from Read Only to Read/Write).

1. Click **NetDisk ™ Administrator Tool** and select a NetDisk you want to change.




**NOTE: Green** circle indicates **Read Only Mode** and **Blue** circle indicates **Read/Write Mode.**

2. Click **Enable Read/Write**




3. **NetDisk Administrator**

   - If you are enabling **Read/Write** without the **Write Key**, **NetDisk Administrator** will appear reminding you to register **Write Key.** Click **OK.**

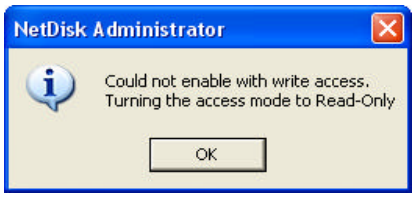
   - If you have registered the **Write Key** during the registration step, skip to step 8.

4. **Edit a NetDisk**

   - Enter a **Write Key**. **Write Key** can be found underneath the NetDisk.

   **NOTE:** The **Add** button will only be enabled when the correct **Write Key** is entered.

5. Occasionally, a NetDisk cannot enable the write access because the NetDisk is busy with other applications or another user. In such a case, NetDisk Administrator window will appear. Otherwise, just move to the next step.

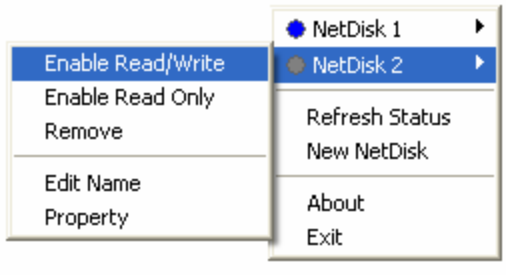



- Click **OK** then try it again later.

6. Again, go to **NetDisk ™ Administrator Tool** and select the same NetDisk you selected in step one. You will notice the color of the circle icon has changed to **Gray**. If not, wait few seconds for the system to update the change.

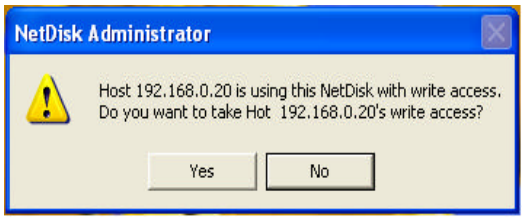
**NOTE:** Sometimes the color of the circle changes to **White** instead of **Gray**. This indicates that NetDisk is busy. Please wait until later time or enable the NetDisk back to **Read Only Mode.**

7. Once the circle icon has changed to **Gray**, select **Enable Read/Write**.



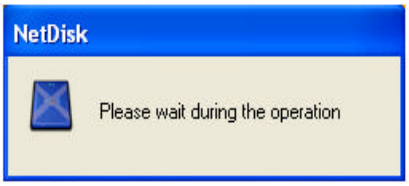

8. **NetDisk Administrator**

- **NetDisk Administrator** will ask if you want to take the write access away from the current writer of the NetDisk.


NetDisk Administrator
Host 192.168.0.20 is using this NetDisk with write access.
Do you want to take Hot 192.168.0.20's write access?
Yes
No

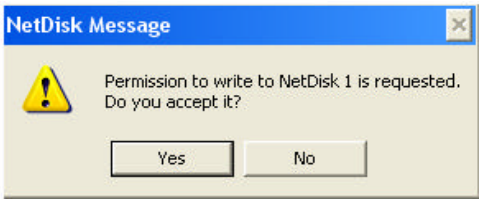
- Click **Yes** if you want to take the write access.
- Click **No** if you do not want to take the write access.

9. If you clicked **Yes**, please wait for the current writer to release the write access.




10. **NetDisk Message**

- On the current writer's window, a message requesting a release of write access will appear.



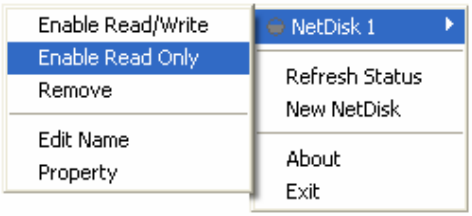

- If the current writer accepts the request, the write access will be passed on to the user who requested the write access.

- If the current writer does not accept the request, the user who requested the write access will have to wait and try again later.

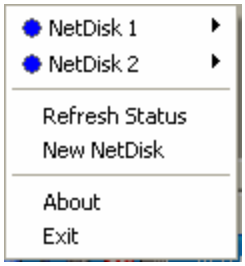
11. **NetDisk Administrator**

- If the current writer denies or does not respond within 15 seconds of the time **NetDisk Message** appears on the screen, **NetDisk Administrator** window will appear. Click **OK** then please try it at later time.
- If the current writer accepts the request and passes on the write access, **NetDisk Administrator** window will not appear.

12. Writer who gives up his/her write access needs to enable the NetDisk back in by selecting **Enable Read Only.**



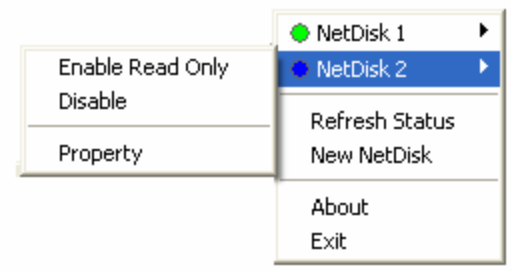

13. New writer's NetDisk circle icon will be change from **Green** to **Blue,** indicating a **Read/Write Mode** .




**NOTE:** Give few seconds for the color of the NetDisk to be updated. If the color of the NetDisk you changed is still **Green**, repeat from step 1 again.

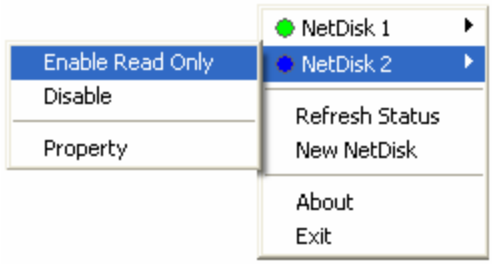
## Change from Read/Write Mode to Read Only Mode

1. Click **NetDisk ™ Administrator Tool** and select a NetDisk you want to change.

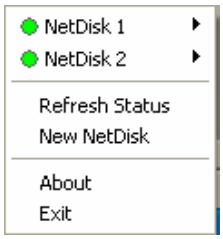



**NOTE: Green** circle indicates **Read Only** and **Blue** circle indicates **Read/Write.**

2. Click **Enable Read Only**.




3. Click **NetDisk™ Administrator Tool** to view the changed NetDisk.




**NOTE:** Give few seconds for the color of the NetDisk to be updated. If the color of the NetDisk you changed is still **Blue**, repeat from step 1 again.

# Chapter 5

# Advanced Functions

## Aggregation

Aggregation is one of the two advanced features NetDisk provides. Aggregation allows users to enable multiple NetDisk units to be recognized as a single large disk drive. This feature is extremely useful where a larger storage device is needed. Please follow the steps below to aggregate NetDisk.

## Requirements For Aggregation:

- Only two NetDisk can be bound at a time.
- Each NetDisk has to have a **Write Key**.
- Each NetDisk has to be **disabled**.
- Cannot bind NetDisk that is already bound.
- Two NetDisk that are being bound must be disabled from all of the user's computers. Only one person, who is performing the binding, can have the NetDisk enabled on his/her computer while the binding is being performed. After the binding is completed, the bound NetDisk needs to be enabled back into **Read Only Mode** or **Read/Write Mode** before it can be used.

## Bind

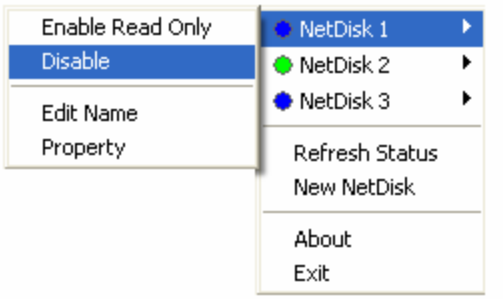
1. Click **Start > Program > NetDisk > NetDisk Aggregation & Mirroring**

**NetDisk Aggregation & Mirroring** window displays all the NetDisk installed and registered in your computer.

- Binding/Mirroring can proceed only if two or more NetDisk are registered in the computer and they are in **Read/Write Mode** (indicated by **Blue** colored NetDisk).
- If two or more NetDisk are listed on the **NetDisk Aggregation & Mirroring** window, continue to the next step. Otherwise, go to **Add (Register) A New NetDisk** on page 9 to add more NetDisk.

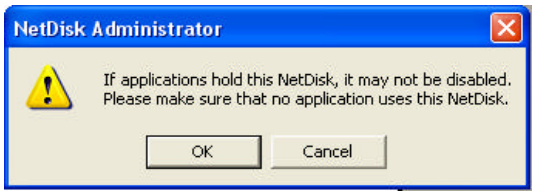
2. Before binding/mirroring the NetDisk, each NetDisk must be disabled.

   - To disable NetDisk, click **NetDisk™ Administrator Tool** . Then choose a NetDisk you want to disable and then select **Disable**.




3. **NetDisk Administrator**

   - If the NetDisk you selected is in use by any applications, NetDisk will not be disabled. In such case, wait until all the applications are finished using NetDisk. Then try disabling it again.


NetDisk Administrator
If applications hold this NetDisk, it may not be disabled.
Please make sure that no application uses this NetDisk.
OK
Cancel

   - Click **OK** if you want to disable the NetDisk. Otherwise, click **Cancel**.

   **NOTE:** If you cannot disable or color of the circle is **White** after several attempts, reboot your computer. This may occur when unseen programs are using the NetDisk,

4. Repeat the above two steps for the second NetDisk you want to disable.

5. Now that two NetDisk are disabled, you will be able to bind/mirror them.

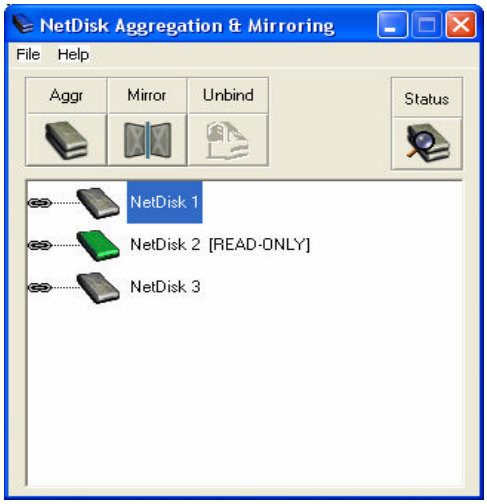
6. If **NetDisk Aggregation & Mirroring** window is not opened, click **Start > Program > NetDisk > NetDisk Aggregation & Mirroring**

**NOTE:** Disabled NetDisk will be indicated by **Gray** colored NetDisk.

- Give few seconds for the changes to take place. If the color of the disabled NetDisk has not been changed to **Gray**, click **Status**. If the color still has not changed, repeat steps 2 and 3 for every NetDisk that did not get disabled.

7. Once two NetDisk have been disabled, binding/mirroring can begin.

8. Select one of the two NetDisk you just disabled. Once you select a NetDisk, **Aggregation-bind** and **Mirroring** buttons will be enabled.



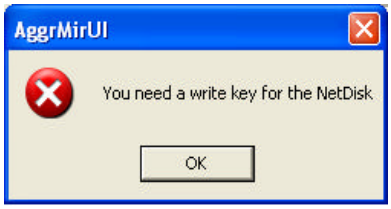

**NOTE:** You can only bind/mirror disabled NetDisk. If you select a NetDisk that is not disabled, **Aggr** or **Mirror** button will not be enabled. In such case, go back to step 2 and disable the NetDisk.

9. Selecting the button.

- Click bind button for **Aggregation-Bind**.
- Click mirror button for **Mirroring**.

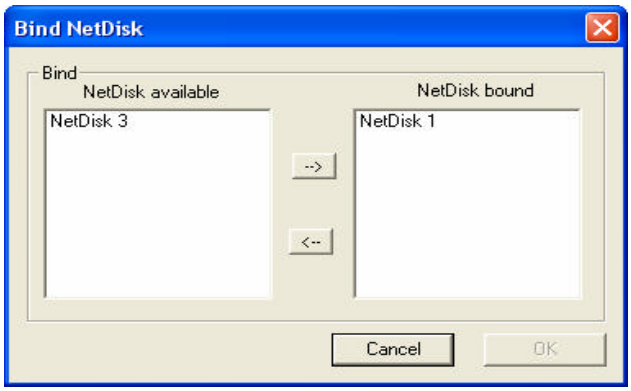
10. Binding/Mirroring

A. If NetDisk you selected does not have a **Write Key**, the following message will appear.




- Click **OK** then refer to **Change from Read Only Mode to Read/Write Mode** on page 19**.**
- Go back to step 2 and continue again from there.

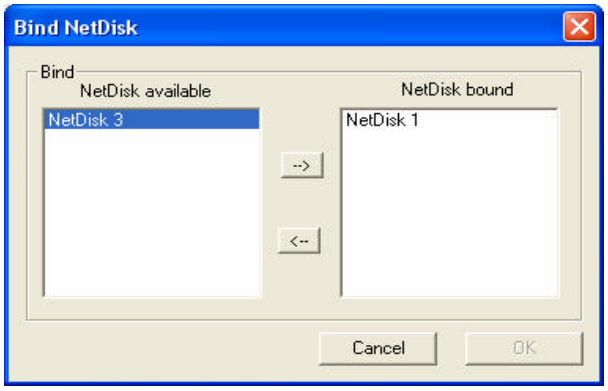
B. If NetDisk you selected has a **Write Key**, the **Bind** window will appear.




**Aggregation:** The **NetDisks bound** box on the right, indicates the first NetDisk you select to bind. The **NetDisks Available** box on the left, lists all the NetDisk you can select from to bind with the first NetDisk.

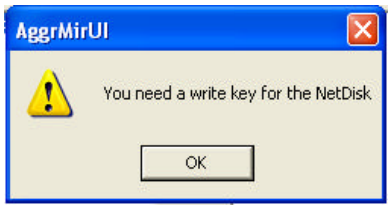
**Mirroring:** The **NetDisks bound** box on the right displays the NetDisk which the data will be mirrored from and the **NetDisks Available** box on the left, lists all the NetDisk you can select from to mirror the data.

11. Select a NetDisk from the **NetDisk Available** box that you want to bind/mirror to.



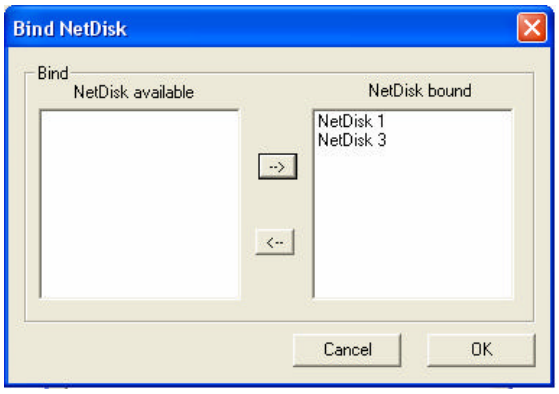

12. Once you selected a NetDisk, click --> button.

A. If NetDisk you selected from **NetDisks Available** box does not have a **Write Key** **AggrMirUI** will appear.




- Click **OK.**
- Click **Cancel** on the **Bind NetDisk** window.
- Refer to **Change from Read Only Mode to Read/Write Mode** on page 19**.**
- Go back to step 2 and start again.

B. If NetDisk you selected has **Write Key**, the binding/mirroring of these two NetDisk will proceed.



- Click **OK**.
-

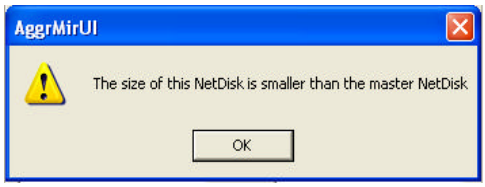
C. Selected wrong NetDisk.

- If you have selected a wrong NetDisk to be aggregated/mirrored, you can simply select the NetDisk from the **NetDisks bound** window and click <--. This will unbind the NetDisk and take you back to step 11.

13. **For mirroring only.**

A. Warning Message

- If a NetDisk you are mirroring the data to is smaller than the NetDisk you are mirroring the data from, warning window will appear.
- Click **OK.**



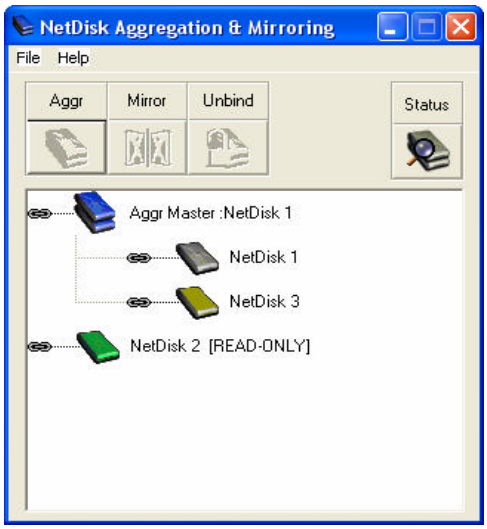

- Click **Cancel** from the **Bind NetDisk** window and repeat from step 8 again.

**NOTE:** Make sure you select a larger or same size NetDisk to mirror the data to.

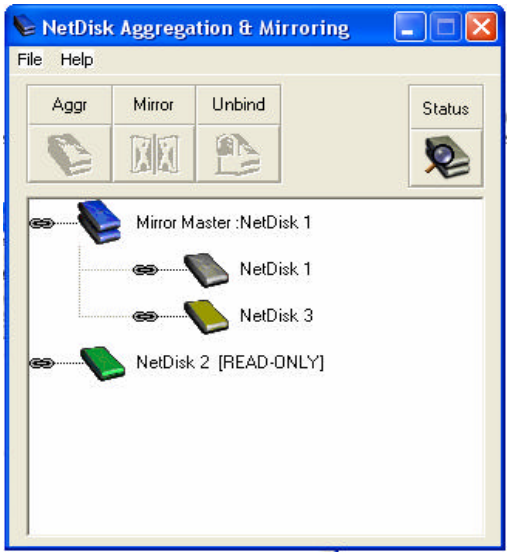
B. Formatting/Partitioning

- Once the mirroring successfully starts, the **AggrMirUi** window will appear advising you to format/partition the master NetDisk before you can use the mirrored NetDisk.
- Instruction on how to format/partition can be found at the end of this document. But before you can format/partition a NetDisk, NetDisk has to be enabled. Please continue to the next step for further instructions on both enabling and formatting/partitioning NetDisk.
- Click **OK.**

14. Binding/Mirroring is completed.




**Aggregation:** The bound NetDisk is indicated by the word **Aggr Master: NetDisk 1**. The NetDisk from the **NetDisks bound** box becomes the **Master** NetDisk and the NetDisk from the **NetDisks available** box becomes the **Slave** NetDisk. The slave gets added to the master NetDisk. The name **Master NetDisk 1** is Master plus the name of the first NetDisk.



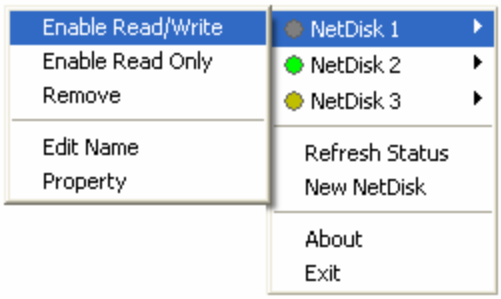

**Mirroring:** The mirrored NetDisk is indicated by the word **Mirror Master: NetDisk 1**. The NetDisk from the **NetDisks bound** box becomes the **Master** NetDisk and the

NetDisk from the **NetDisks available** box becomes the **Slave** NetDisk. The master NetDisk is mirrored to slave NetDisk.

15. Click **NetDisk Administrator Tool** .

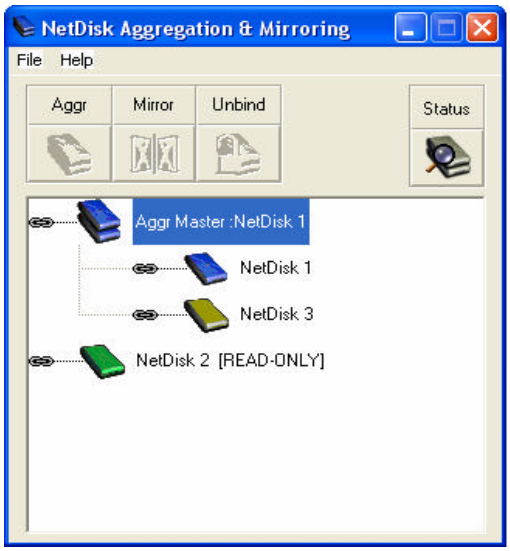
**NOTE:** NetDisk 1 is disabled master NetDisk and NetDisk 3 is slave NetDisk.

16. Enable the bound/mirrored NetDisk by selecting either **Enable Read/Write** or **Enable Read Only**.

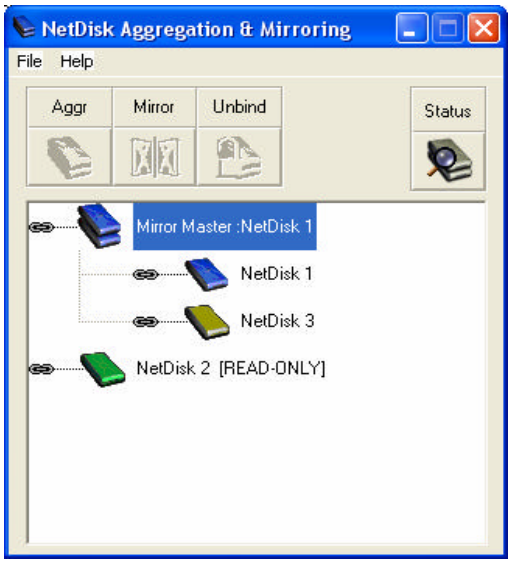



17. Go to **NetDisk Aggregation & Mirroring** window. You will notice the changes in the color of the master NetDisk.

**Aggregation**




**Mirroring**



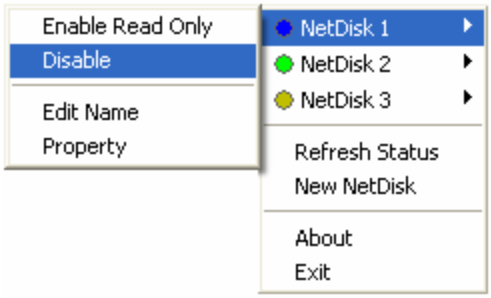

18. Before you can use the new bound/mirrored NetDisk, the NetDisk needs to be partitioned. Please refer to **Partition NetDisk** on page 39.

## Unbind

In order to unbind a NetDisk all the users who have the bound NetDisk registered in their computer must disable the NetDisk. NetDisk cannot be unbound until it is disabled from all the users' computers.

1. Click **NetDisk™ Administrator Tool** and select a master NetDisk you want to

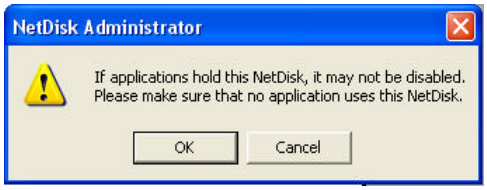
unbind. Then select **Disable**.




**NOTE:** You can only unbind disabled NetDisk.

2. **NetDisk Administrator**

- If the NetDisk is being used by any applications, NetDisk will not be disabled. In such case, wait until all the applications are finished using NetDisk. Then try disabling it again.


NetDisk Administrator
If applications hold this NetDisk, it may not be disabled.
Please make sure that no application uses this NetDisk.
OK
Cancel

- Click **OK** if you want to disable the NetDisk. Otherwise, click **Cancel**.

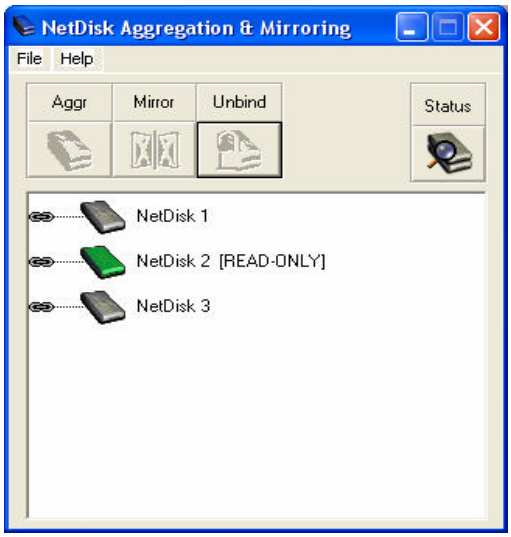
**NOTE:** If you still cannot disable after several attempts, reboot your computer. This may occur when unseen programs are using the NetDisk.

3. Disabled NetDisk is indicated by **Gray** colored circle.

4. Go to **NetDisk Aggregation & Mirroring** window. The color of the master NetDisk you just disabled will be **Gray.** If not, press **Status** button.

5. Select a NetDisk you want to unbind and click unbind button.

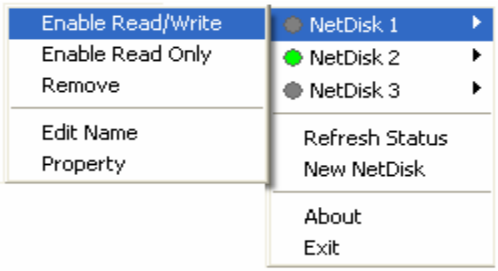
6. The bound NetDisk will unbind into the two original NetDisk.




- Two unbound NetDisk is also visible from **NetDisk™ Administrator Tool** .

7. Enable the unbound NetDisk by selecting either **Enable Read/Write** or **Enable Read Only**.

   - NetDisk cannot be used before it is enabled.




   - Repeat this step for the second unbound NetDisk.

8. Before you can use the two unbound NetDisk, you need to either initialize them or partition them.

   - Right click **My Computer.** Click **Manage > Disk Management**.
   - If an unbound NetDisk is not yet initialized, indicated by

, go to **Initialize NetDisk** on page 44. Otherwise go to **Partition NetDisk** on page 39.

## Mirroring

Mirroring is another advanced feature NetDisk provides beside aggregation. The purpose of mirroring is to continuously create and save a copy of data in one NetDisk to another NetDisk, in real time, whenever a new data is written to the NetDisk. Please refer to the below instructions.

## Requirements for Mirroring:

- Each NetDisk has to have a **Write Key**.
- Each NetDisk has to be **disabled**.
- Cannot mirror NetDisk that is already mirrored.
- A NetDisk that you are saving the data to must be same or larger than the NetDisk you are copying the data from. Otherwise, the NetDisk you are saving the data to may run out of space.

- Two NetDisk that are being mirrored must be disabled or removed from all other user's computers. Only one person, who is performing the mirroring, can have the NetDisk enabled on his/her computer while the mirroring is being performed. After mirroring is completed, users can enable or register the mirrored NetDisk at their convinces.

### Mirroring

Mirroring and Aggregation are done exactly the same way, except for selecting Aggregation-Bind button for the Aggregation and Mirror button for the Mirroring. Please refer to Bind on page for 24 Mirroring.

### Undo Mirroring

Please follow the **Aggregation - Unbind** on page 32 to undo Mirroring.

# Chapter 6

# Uninstallation

### Uninstall NetDisk

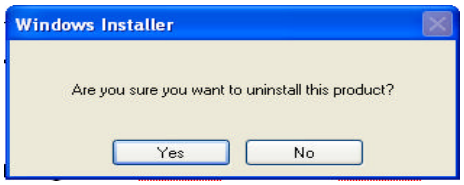
Before you can uninstall the NetDisk, you must close all the applications that are using the NetDisk.

**NOTE:** NetDisk Administrator, NetDisk Aggregation & Mirroring, Windows Explorer and Internet Explorer must be closed.

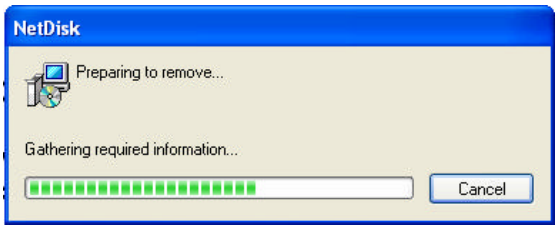
There are two different ways in which you can uninstall NetDisk.

1. Click **Start > All Programs > NetDisk > Uninstall NetDisk**.

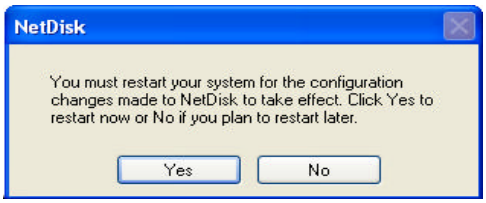
   A. **Windows Installer** will appear. Click **Yes** if you want to continue uninstall. Otherwise click **No**.




B. NetDisk is being prepared to be removed

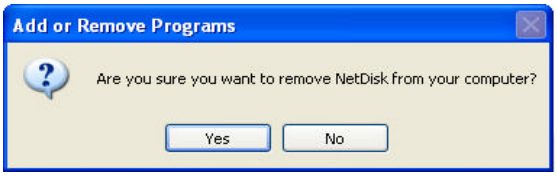



C. You must restart your computer for it to configure the changes made by uninstalling the NetDisk Software. If you choose not to restart our computer at this moment, you must restart your computer shortly. If not, you will have problem re-installing the NetDisk Software.

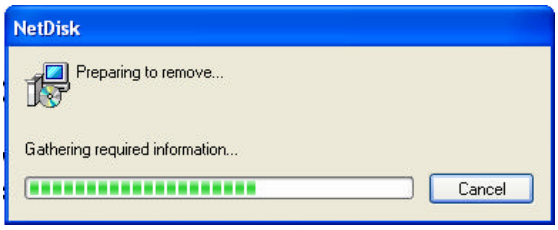

NetDisk
You must restart your system for the configuration changes made to NetDisk to take effect. Click Yes to restart now or No if you plan to restart later.
Yes
No

2. Click **Start > Control Panel > Add or Remove Programs > NetDisk > Remove**

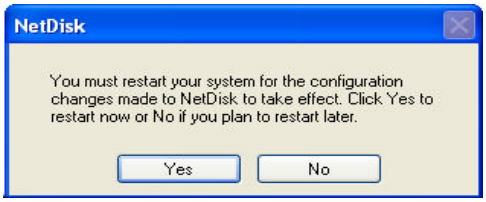
A. **Add or Remove Programs** will appear. Click **Yes** if you want to continue uninstall. Otherwise, click **No**.



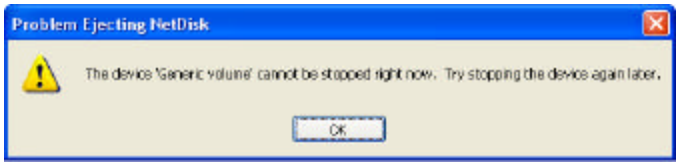

B. NetDisk is being prepared to be removed




C. You must restart your computer for it to configure the changes made by uninstalling the NetDisk Software. If you choose not to restart our computer at this moment, you must restart your computer shortly. If not, you will have problem re-installing the NetDisk Software.


NetDisk
You must restart your system for the configuration changes made to NetDisk to take effect. Click Yes to restart now or No if you plan to restart later.
Yes
No

**NOTE: Problem Ejecting NetDisk** appears when applications are using the NetDisk you are trying to remove. Click **OK** and try removing the NetDisk again after a few minutes.

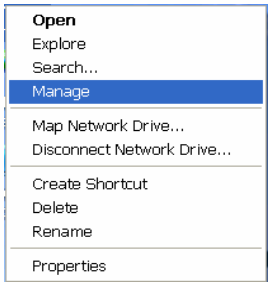


# Chapter 7

# Formatting NetDisk

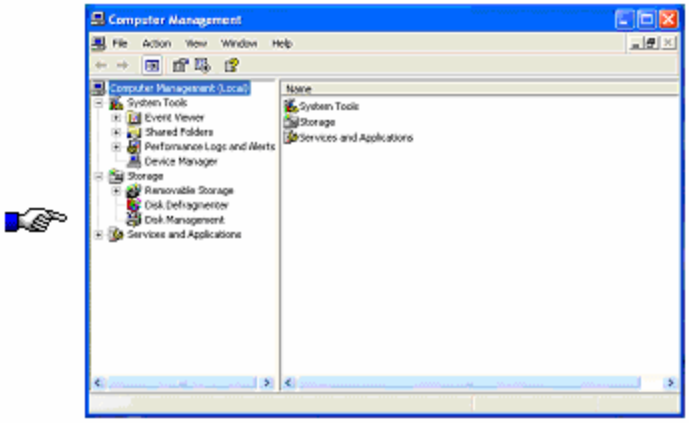
## Partition NetDisk

1. Right click **My Computer** and select **Manage.**

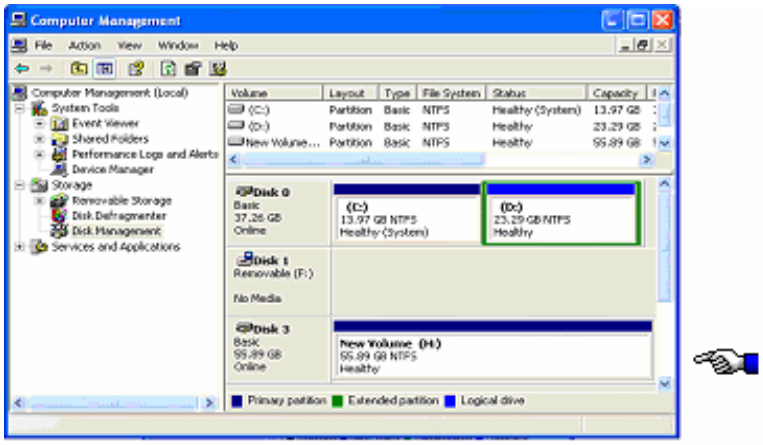



2. **Computer Management** will appear.

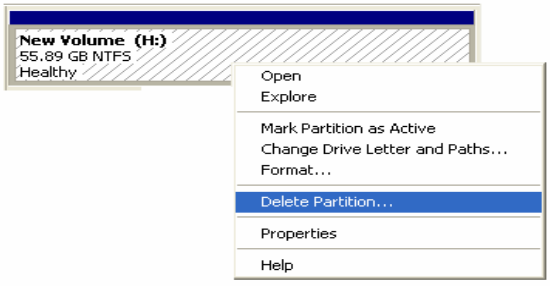
   - Click **Disk Management** under **Storage.**



3. Disabled disk will be shown on the **Computer Management**.



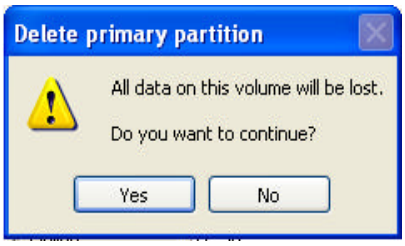

4. Right click on the box and select **Delete Partition**.



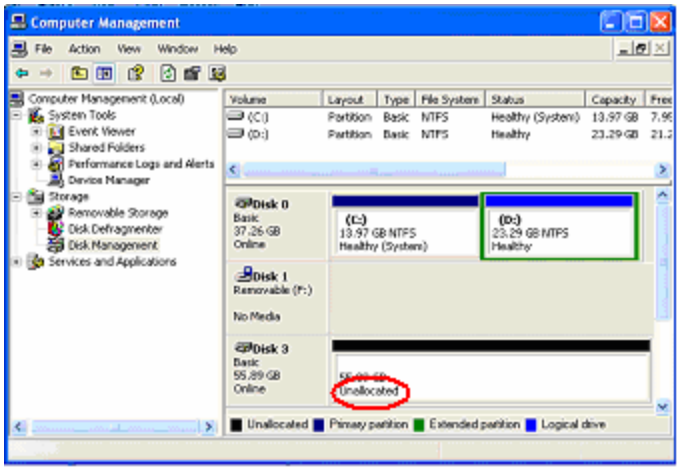

5. **Delete primary partition** will appear.

   **NOTE:** When you delete partition, all the data on the disk will be last.

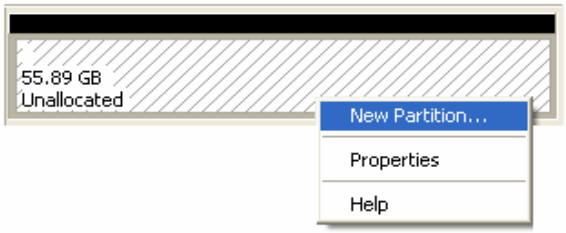
   - Click **Yes** if you want to continue partitioning. Otherwise, click **No**.



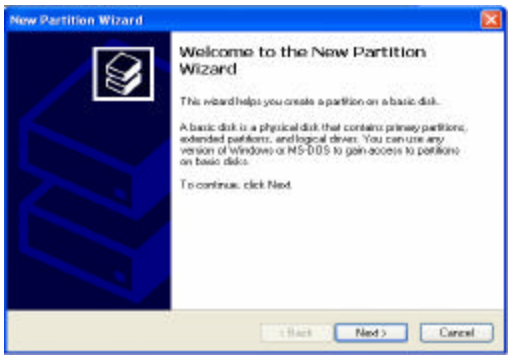
6. Partition has been deleted and it is indicated by the word **Unallocated**.



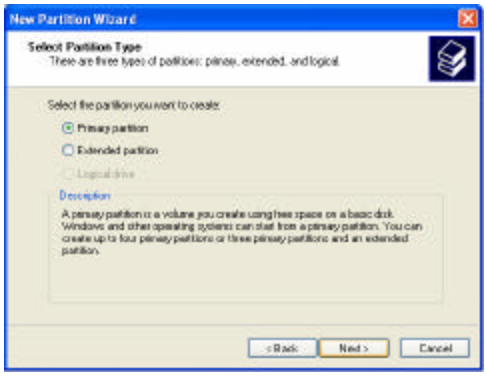

7. Right click on the box and select **New Partition**.




8. **New Partition Wizard:** Click **next**.

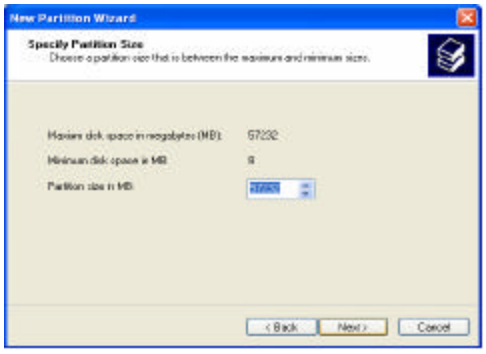

New Partition Wizard
Welcome to the New Partition Wizard
This wizard helps you create a partition on a basic disk.
A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. You can use any version of Windows or MS-DOS to gain access to partitions on basic disks.
To continue, click Next.
< Back
Next >
Cancel

9. **Select Partition Type:** Select **Primary partition** and click **Next**.

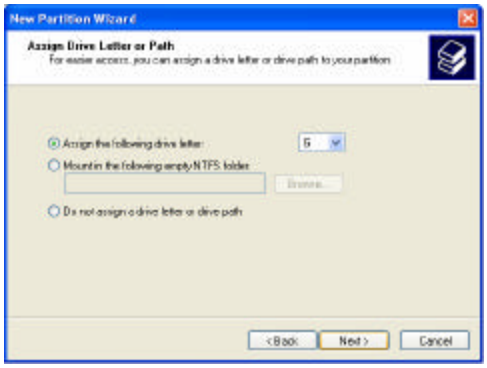



10. **Specify Partition Size:** Click **Next**.

    **NOTE:** The partition size is automatically set. No need to change the size.

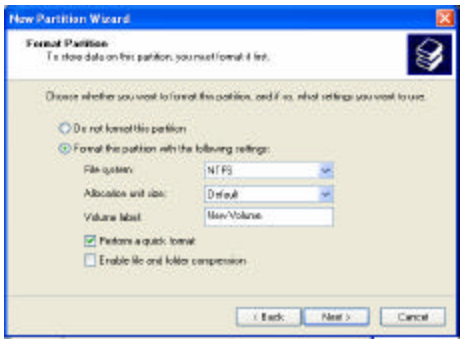



11. **Assign Drive Letter or Path:** Select **Assign the following driver letter** and choose a name for the drive from list. Then click **Next**.


New Partition Wizard
Assign Drive Letter or Path
Assign the following drive letter:
Mount in the following empty NTFS folder
Do not assign a drive letter or drive path
< Back
Next >
Cancel

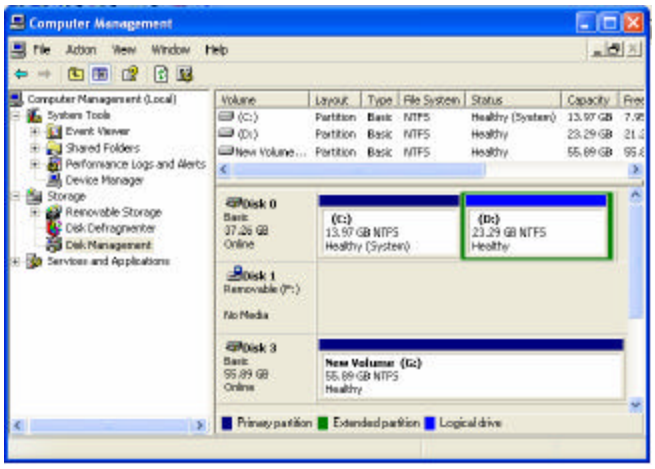
12. **Format Partition**: Select **Format this partition with the following Settings** and **Perform a quick format (Recommended).**

    - Click **next.**



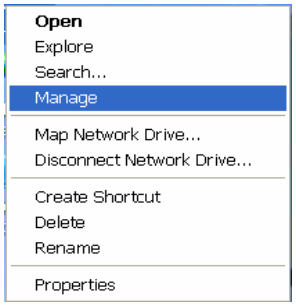

13. Partitioning is finished. Click **Finish**.

14. You can see the partitioned disk.

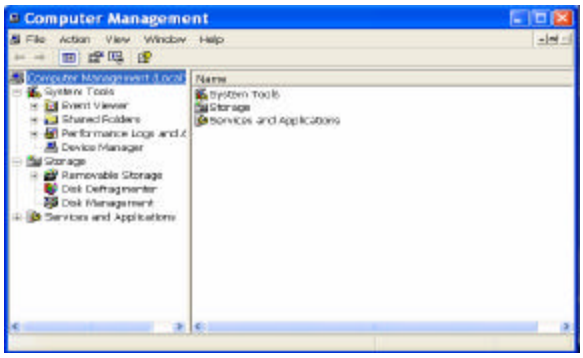



## Initialize NetDisk

1. Right click **My Computer** and select **Manage.**



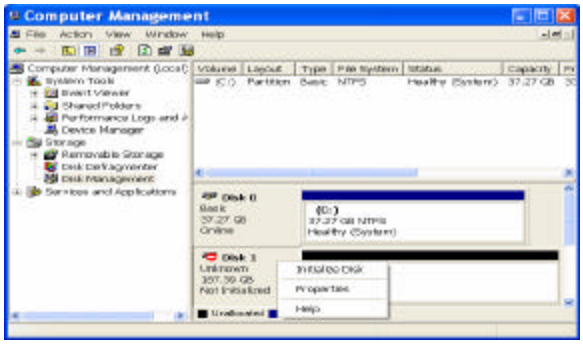

2. **Computer Management** window will appear. Click **Disk Management** under **Storage**.



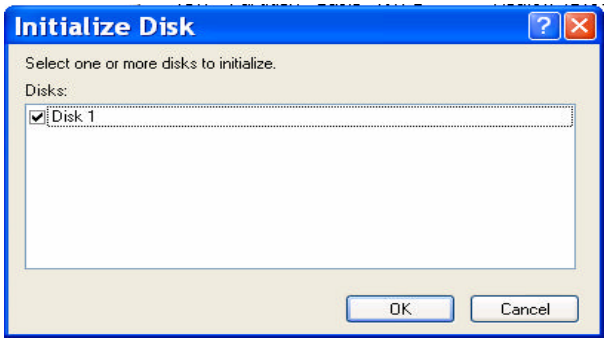

3. **Computer Management** window will list all the disks in the computer.

- Find NetDisk you want to format and right click

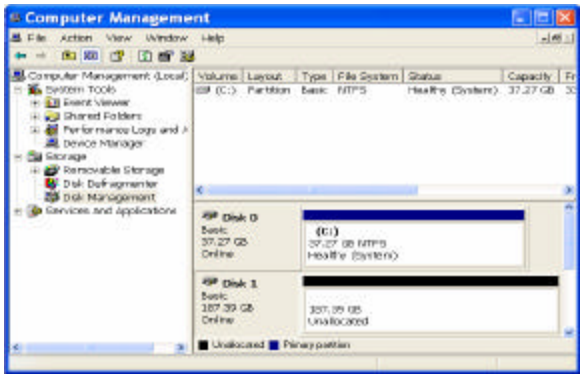
**NOTE:** NetDisk you are looking for is the unknown or not initialized disk.




4. Select **Initialize NetDisk. Initialize NetDisk** window will appear. Select the right disk and click **Ok.**

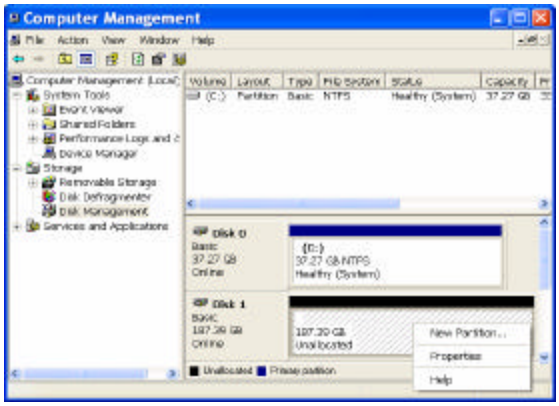



5. NetDisk will be automatically initialized.



**NOTE:** Unknown becomes Basic

6. Right click **Unallocated** box then select **New Partition**.




- Go to **Partition NetDisk** on 39 and start from step 8.

# Chapter 8

# Contact Information

**How to Contact XiMeta, Inc.**

XiMeta, Inc.
15251 Alton Parkway
Irvine, CA 92618

**What to do before you contact us:**

Whenever you contact XiMeta, Inc. for technical support, please have the following information available:

Product name, model, serial number and software version number.

**Technical Support on the Internet:**

For the latest information on NetDisk, visit our website at www.ximeta.com

**Technical Support by E-Mail:**

Our e-mail address for technical support is support@ximeta.com